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(54) Puncture resistant polymeric films, blends and process

(57) A polymer blend and mono-and multilayer films made therefrom suitable for processing or packaging articles which films have an improved combination of properties e.g. such as lower tear strength and higher puncture resistance, or higher puncture resistance at both room temperature in air and at elevated temperatures in contact with water wherein the blend preferably has a first copolymer of ethylene and hexene-1 having a copolymer melting point of 80 to 98°C, preferably of 80 to 92°C; a second copolymer of ethylene and at least one α -olefin having a copolymer melting point of 115 to 128°C; and a third copolymer of ethylene and a vinyl ester or alkyl acrylate and having a melting point of 60 to 110°C, and a process for making such films, especially shrink films having at least 40% shrink at 90°C in at least one direction.

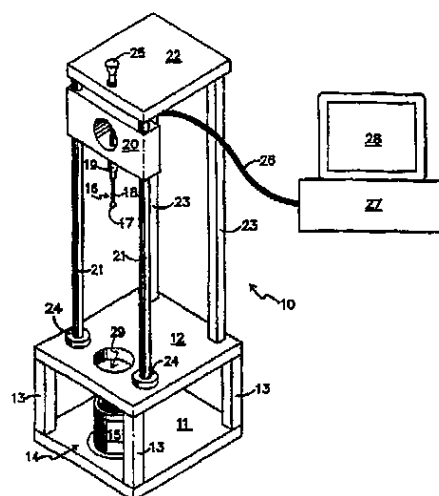


FIG. 1

EP 0 992 339 A 3

EP 0 992 339 A3

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EUROPEAN SEARCH REPORT

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EP 99 11 9916

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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A	* abstract; claims 1-45 * * page 11, line 13,24-30 * * page 12, line 19-30 * * page 13, line 1 - page 14, line 25 * * page 15, line 7,14-26 * * page 16, line 1-13,17 * * page 20, line 6-30 * * page 21, line 15-25 * * tables 1-3 * * page 48, line 7-20 *	2,9,11, 17,18, 33-54, 62-91	
A	EP 0 562 493 A (VISKASE CORP) 29 September 1993 (1993-09-29) * abstract; claims 1-14 * * page 2, line 3,4,39,40 * * page 3, line 32,50-60 * * tables A,C,L,M * * page 14, line 24,54-60 * * page 22, line 25-30 *	1-84	TECHNICAL FIELDS SEARCHED (Int.Cl.7) C08L C08J B32B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 March 2000	Examiner Bergmans, K
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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EP 0 992 339 A3

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EP 99 11 9916

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